

Name : _____

Evaluate the Expressions - Single Variable

DS5

Evaluate each algebraic expression for the given value of the variable.

1) $(6z^2 - 9z + 12)^2$ at $z = \frac{2}{3}$

2) $\frac{9n - 23}{5}$ at $n = 7$

3) $u(2u^2 - u)$ at $u = \frac{22}{3}$ at $q = 1$

5) $t^2 + 25t$ at $t = x + 2$ at $x = \frac{7}{2}$

7) $(b^2 - 4b)^2$ at $b = \frac{7}{2}$ at $v = -6$

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9) $\frac{-s^3 + 14s - 9}{3s^2 + s + 10}$ at $s = 3$

10) $4y^3 - 11y^2 + 3$ at $y = -2$

Evaluate the Expressions - Single Variable

Evaluate each algebraic expression for the given value of the variable.

1) $(6z^2 - 9z + 12)^2$ at $z = \frac{2}{3}$

$$\frac{676}{9}$$

2) $\frac{9n - 23}{5}$ at $n = 7$

$$8$$

3) $u(2u^2 - u)$ at $u = \frac{22}{5}$ at $q = 1$

$$-144$$

5) $t^2 + 25t$ at $t = \frac{7}{2}$

$$-\frac{74}{9}$$

7) $(b^2 - 4b)^2$ at $b = \frac{7}{2}$ at $v = -6$

$$16$$

9) $\frac{-s^3 + 14s - 9}{3s^2 + s + 10}$ at $s = 3$

$$\frac{3}{20}$$

10) $4y^3 - 11y^2 + 3$ at $y = -2$

$$-73$$

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